

# WESTERN CLAY COMPANY

INDUSTRIAL / AGRICULTURAL MINERALS

October 12<sup>th</sup> 2001

*m/41/012*

D. Wayne Hedberg, Permit Supervisor  
Minerals Regulatory Program  
State Of Utah, DNR, DOGM..  
PO BOX 145801  
Salt Lake City, UT 84114-5801

**Re: Notice of Non-Compliance, Bentonite Mine M/041/012**

Dear Mr. Hedberg:

Thank you and your staff for all of your help with our operations regarding our Bentonite Mine (Red Pit). Please be assured that we are doing all we can to meet the mitigation requirements in your letter of September 19.

Mitigation Requirement No. 1

Western Clay must post a transitional reclamation surety within 60 days in the amount of \$62,800. As Western Clay already has a surety for \$17,600 we are pursuing the additional \$45,200 in the form of a letter of credit from Utah Independent Bank. As the state trust lands has given us a deadline for posting a surety of October 23<sup>rd</sup> that is the date we are "shooting" for to have this bonding finalized, hopefully we can do it sooner.

Mitigation Requirement No. 2

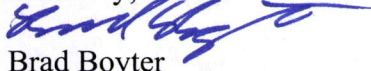
Western Clay must file a Notice of Intention to Revise Large Mine Operations. Mr. Wallace Curtis of Western Clay has spoken with Mr. Doug Jensen in your office and a copy of this form is enclosed. As most of the maps have already been submitted only those requested have been attached.

Mitigation Requirement No. 3

Western must restrict its operations to the boundary of this 33.24 acres. The area boundary was marked with metal T-posts on September 29<sup>th</sup> and at that time a inspection was conducted to ensure there were no breaches of the boundary, and none were found.

If you have any questions or concerns about this letter or need to contact us for any reason please feel free to call myself at 435-529-3281 or Wallace Curtis at 435-529-3445.

Sincerely;



Brad Boyter  
President

Copy to John Blake, SITLA

RECEIVED

OCT 22 2001

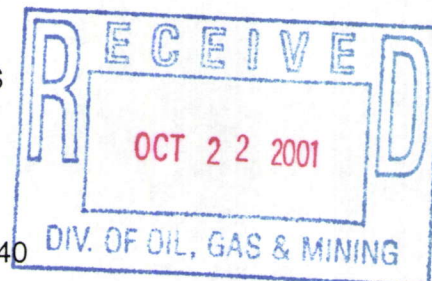
DIVISION OF  
OIL, GAS AND MINING



**FOR DOGM USE ONLY:**

File #:(M/S) M / 41012 ( )  
Approved: (mm/dd/yy)      /      /       
Bond Adjustment: (\$)                     

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
**DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Telephone: (801) 538-5291 Fax: (801) 359-3940



**NOTICE OF INTENTION TO REVISE MINING OPERATIONS**

When an operator intends to revise a mining operation, a **Notice of Intention to Revise Mining Operations** shall be filed with the Division. The notice must include all information, concerning the revision, that would have been required if it had been included in the original Notice of Intention (NOI). Ideally, the revision application should be a "stand-alone" document and include all information necessary to conduct a complete review.

**"REVISION"** means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require a formal public notice of tentative approval and may require a change in the amount of reclamation surety.

**"AMENDMENT"** is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

**PLEASE NOTE:** When applicable, reference to previously approved information contained in the original NOI can be used (identify volume #'s, section, page #, plate/map #'s, & date of submittal). If possible, please attach appropriate copies of the referenced material as part of the application for revision.

Where possible, please format the application to revise mining operations (e.g., text, maps, tables, figures, etc.) to allow direct insertion into the original NOI as replacement pages, or as a separate addendum to the approved NOI.

**The operator is encouraged to use this form as a guide only. Please use extra sheets as necessary to complete each section that follows.**

## II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R647-4-105.

List map numbers or appendices used for this section: APENDIX 2 Surface Ownership  
APENDIX 3 Topographic Maps  
APENDIX 4 Overview Maps  
APENDIX 5 Surface Facilities Maps

## III. OPERATION PLAN (Rule R647-4-106)

Provide a narrative description, referencing any appropriate attached maps or drawings, of the pertinent details of the proposed change(s) in the operating plan. Specific details which are different from those described in the original approved NOI should be included. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment. All appropriate information requirements as outlined under Rule R647-4-106 must be addressed in the application.

Increasing disturbed acreage to 33.24 Acres. Three additional  
pits operated in the same manner as the original pits. Estimated  
production is 50,000 tons per year. Soils, hydrology, vegetation,  
ect., are unchanged from the original NOI see Appendix 1  
Previously approved pit is labeled Red Pit.

Expansion pits are the North Slope Pit, North Sheeptrail Pit,  
and South Sheeptrail Pits. (See maps in appendixes 4 and 5.)

## IV. IMPACT ASSESSMENT (Rule R647-4-109)

Please provide information as required under Rule R647-4-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

All water is contained in setting berms or in the pits themselves.  
This minimizes impacts to water systems.

There is little or no topsoil and very sparse vegetation in the  
area.

Fencing, berms, and warning signs have been and will be erected  
to mitigate safety hazards.

The following information must be included as part of the application to revise mining operations:

**I. GENERAL INFORMATION (Rule R647-4-104)**

1. **Name of Operator/Applicant:** Western Clay Company
2. **Name of Company/Corporation:** Western Clay Company
3. **Address:** 508 E. Center Street  
Aurora, Utah 84620-0127
4. **Phone:** ( 435 ) 529-3281 **Fax:** ( 435 ) 529-3714
5. **Name of Mine/Project:** Redmond Bentonite Pit
6. **Previously Assigned File Number:** (M / S) <sup>041</sup> / 012  
\*from original Notice of Intention (NOI)
7. **Location of Proposed Activities:**  
COUNTY Sevier  
TOWNSHIP 20 S, RANGE 1 W,  
NE 1/4 section 2  
SECTION(S) SE 1/4 section 35 (Identify to 1/4, 1/4 section)
8. **Ownership of Land Surface:** (See Appendix 2)  
Private (Fee) X Owners Name(s): Western Clay, Utelite Corp., Ken & Kirby Nelson  
Terrell & Rhea Nelson.  
State of Utah X Public Domain (BLM) \_\_\_\_\_ National Forest (USFS) \_\_\_\_\_
9. **Ownership of Minerals:**  
Private (Fee) \_\_\_\_\_ Owners Names(s): \_\_\_\_\_  
State of Utah X Public Domain (BLM) \_\_\_\_\_ National Forest (USFS) \_\_\_\_\_
10. **Utah Mining Claim Number(s)** \_\_\_\_\_  
\_\_\_\_\_
11. **Utah State Lease Numbers(s)** ML-1937  
\_\_\_\_\_

## II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R647-4-105.

List map numbers or appendices used for this section: APENDIX 2 Surface Ownership  
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Increasing disturbed acreage to 33.24 Acres. Three additional  
pits operated in the same manner as the original pits. Estimated  
production is 50,000 tons per year. Soils, hydrology, vegetation,  
ect., are unchanged from the original NOI see Appendix 1  
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Expansion pits are the North Slope Pit, North Sheeptrail Pit,  
and South Sheeptrail Pits. (See maps in appendixes 4 and 5.)

## IV. IMPACT ASSESSMENT (Rule R647-4-109)

Please provide information as required under Rule R647-4-109 regarding projected potential surface and/or subsurface impacts which may be associated with the proposed change(s) in mining operations.

All water is contained in settling berms or in the pits themselves.  
This minimizes impacts to water systems.

There is little or no topsoil and very sparse vegetation in the  
area.

Fencing, berms, and warning signs have been and will be erected  
to mitigate safety hazards.

#### V. RECLAMATION PLAN (Rule R647-4-110)

Describe how you intend to stabilize the disturbed areas upon cessation of operations. This includes backfilling excavations, grading, sloping or contouring, permanent stabilization of slopes or roads, permanent closure of roads, removal of structures and improvements, etc. Provide cross section of the proposed final contour of the land after reclamation.

Please outline any proposed changes to the originally approved reclamation plan. Appropriate sections of Rule R647-4-110 must be addressed as they may apply to the proposed change(s) in mining operations.

Current land use is grazing, postmining land use is grazing.

Pits will be graded to a stable configuration. Area will be seeded with the approved seed mix. No structures will be left postmining.

#### VI. VARIANCE (Rule R647-4-112)

Please identify any requests for variance from the requirements of rules R647-4-107, -108, or -111. A narrative justification must also be included for each variance request. A discussion of any alternate methods or other mitigating measures should be included, if applicable.

No variance requested.

#### VII. SURETY (Rule 647-4-113)

##### Reclamation Surety:

Indicate whether the proposed activities will change the amount of work required to reclaim the minesite. If significant changes will result, then an itemized reclamation cost estimate

should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

The only differences would be the increased acreage.

#### VIII. SIGNATURE REQUIREMENT

The application for permit change must include a section similar to the following example:

I hereby certify that the foregoing is true and correct.

Shirley H. H. H.  
Signature of Authorized Officer/Representative:

Brad Boyer  
Name (Typed or Print):

President  
Title of Authorized Officer/Representative:

Date: 4-23-01



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 9, 1985

TO: The Board of Oil, Gas and Mining  
THRU: Lowell P. Braxton, Administrator *L.P.B.*  
FROM: Susan C. Linner, *SL* Reclamation Biologist/Permit Supervisor  
RE: Executive Summary, Western Clay Company, Modification to  
Redmond Bentonite Pit permit, ACT/041/012,  
Sevier County, Utah

Attached for your information is an Executive Summary for Western Clay Company's Redmond Bentonite Pit. Public notice has been given and the 30-day public comment period will end September 1, 1985.

The Division recommends that you concur with the \$8,300 bond amount, to be held by Division of State Lands and Forestry.

jvb

0060R-33



## EXECUTIVE SUMMARY

Mine Name: Redmond Bentonite Pit  
Operator: Western Clay Company  
P. O. Box 1067  
Aurora, Utah 84620

Telephone: 801-529-3286  
Contact Person: Mr. Thomas Chivers  
Life of Mine: 25Years  
Legal Description: Section 2, Township 21 S. Range 1 West

I. D. No.: ACT/041/012  
County: Sevier  
New/Existing: Modification to  
Existing mine plan  
Mineral Ownership: State of Utah  
Surface Ownership: State of Utah  
Lease No.(s): ML-1937(State)  
Permit Term: 5 years

Mineral(s) to be Mined: Bentonite  
Mining Methods: Open Pit  
Acres to be Disturbed: 8.5 Acres  
Present Land Use: Mining, Grazing  
Postmining Land Use: Grazing  
Variances from Reclamation Standards (Rule M-10) Granted: None Requested

### Soils and Geology:

Soil Description: Sandy clay loam - clay, these are badland soils derived from alluvial fans and low lake terrace, alkaline, poorly drained  
pH: Colorado Plateau Province Ave. 8.1-9.1  
Special Handling Problems: Extremely high sodium content  
Geology Description: Bentonite is found in volcanics near Redmond. High Plateaus dissected by main drainages. Local folding causing steep dipping in stratified formations and giving rise to hogbacks.

### Hydrology:

Ground Water Description: N/A  
Surface Water Description: Runoff from the area resulting from the 8 inches of annual precipitation could enter the Piute Canal and eventually the Sevier River. All drainage from the disturbed area is contained locally in pits and ponds where it evaporates.  
Water Monitoring Plan: N/A

Ecology:

Vegetation Type(s); Dominant Species: Salt Desert Shrub, Shadsacle, Snakeweed,  
Sand dropseed, Indian Ricegrass  
Percent Surrounding Vegetative Cover: 15%  
Wildlife Concerns: None. Area is considered to have been overgrazed.  
Surface Facilities: Open pit and ponds. All raw product is hauled to Aurora for  
processing.  
Mining and Reclamation Plan Summary: Test plots are in place to determine the  
most feasible techniques. Fencing has been/will be done to mitigate safety hazard.  
See attached.

Surety:

Amount: \$8,300  
Form: \_\_\_\_\_  
Renewable Term: 5years (1990 dollars)

## OPERATION AND RECLAMATION PLAN

### During Operations:

1. The bentonite clay deposit being mined occurs on the surface and thus does not require explosives to mine. It sometimes requires ripping. The clay is mined with a front-end loader and loaded into a truck for transport to a processing plant in Aurora, Utah
2. There will be no structures on site.
3. Any topsoil or overburden present will be removed for reclamation purposes.
4. Runoff from the minesite will be contained in two catch basins. Any water collecting in the pit will be pumped so as to flow into the catch basins.

### Following operations:

1. All trash and debris will be cleaned up.
2. Slopes will be regraded to a stable configuration.
3. Soil material will be reapplied, harrowed and drill seeded with a mixture adapted to the area.
4. Test plots have been implemented to help determine the best methods for successful reclamation.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

File  
Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 19, 1985

CERTIFIED RETURN RECEIPT REQUESTED  
P-592-429-572

Mr. Neil J. Mortensen, President  
Western Clay Company  
P.O. Box 1067  
Aurora, Utah 84620

Dear Mr. Mortensen:

RE: Bond Estimate, Western Clay Company, Redmond Bentonite Pit,  
ACT/041/012, Sevier County, Utah

Information and cost estimates provided by Western Clay on August 5, 1985 are sufficient for determination of the bond amount. The only additional calculation involves the inflation of the estimated amount:

TOTAL ESTIMATE (1985\$) BY WESTERN CLAY	\$6,911.80
INFLATION @ 3.79% PER YEAR (MEANS COST DATA)	
INFLATED TO 1986\$ -	\$7,173.76
TOTAL AMOUNT IN 1986\$ ROUNDED TO NEAREST \$100 =	\$7,200.00

Western Clay currently has sureties held by the Division of State Lands and Forestry for the Redmond Bentonite Pit (ML1937) in the amounts as follows:

1. Certificate of Deposit Number 55 6996023 for \$5,000 from Zions First National Bank
2. Time Deposite Accounting Number 202028 for \$2,000 from First Security Bank

Additionally, the Division of Oil, Gas and Mining is holding the following surety amount:

1. Time Certificate of Deposit Number 151245 for \$1,000 from Zions First National Bank

Page 2

Mr. Neil J. Mortensen

ACT/041/012

August 19, 1985

This total of \$8,000 represents reclamation costs in 1986\$ for the currently approved reclamation plan. Rounding the 1986\$ bonding amount required for the new pit, the additional amount would be \$7,200, for a total amount required to be posted of \$15,200 in 1986\$.

The minimum amount of surety required at present is \$15,200 in 1986\$. However, Western Clay may extend the surety term for a period longer than 1 year. The following escalation schedule (rounded to the nearest \$100) is provided if Western Clay desires to use such an option. Note that the bond amount posted must be estimated in dollars equal to the year that the term would expire.

AMOUNT REQ'D.	DOLLARS
\$15,200.00	1986\$
\$15,800.00	1987\$
\$16,400.00	1988\$
\$17,000.00	1989\$
\$17,600.00	1990\$

Western Clay has requested information regarding usage of an irrevocable letter of credit in lieu of certificates of deposit. This alternate method of bonding is acceptable to the Division with the following requirements:

1. The letter may be issued only by a bank organized or authorized to do business in the United States.
2. Letters of credit shall be irrevocable during their terms. A letter of credit used as security in areas requiring continuous bond coverage shall be forfeited and shall be collected by the Division if not replaced by other suitable bond or letter of credit at least 30 days before its expiration date.
3. The letter of credit shall be payable to the Division upon demand, in part or full, upon receipt from the Division of a notice of foreclosure forfeiture issued in accordance with Rule M-5.



Page 3  
Mr. Neil J. Mortensen  
ACT/041/012  
August 16, 1985

It appears acceptable to the Division that the existing amounts held by the State could be released upon receipt and acceptance of an irrevocable letter of credit. This would help eliminate the multiple accounts held by the State and also simplify both Western Clay's and the Division's process of tracking the surety for the operation.

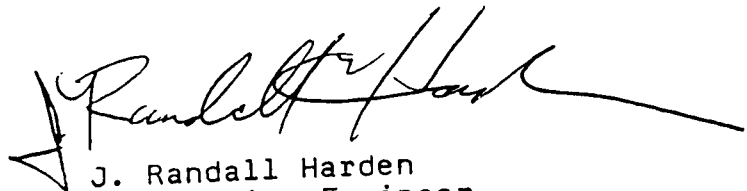
Please let us know your decision on this as soon as possible so that we may make arrangements with State Lands for the change in the surety amount.

Additionally, Mr. Garrick has only submitted draft copies of the responses to the Division's comments concerning the proposed new pit. Please submit two copies of your finalized response along with copies of your maps and plans for the proposed pit.

It has also come to our attention that we do not have a copy of your Annual Operations and Progress Report as required by the Division. Please find enclosed, a copy of the letter requesting completion of the report and a copy of form MR-3 to be completed.

Final approval of the proposed pit shall be subject to receipt and approval of the new bond amount by the Division, finalized copies of Western Clay's responses and also upon receipt of the required annual report. Thank you for your timeliness and cooperation in this matter. Should you have any questions please feel free to call.

Sincerely,



J. Randall Harden  
Reclamation Engineer

JRH:jvb  
Enclosures  
cc: L. Braxton  
S. Linner  
P. Grughbaugh-Littig  
1011R-3

### Revegetation Recommendation:

When the company does reseeding, I recommend that emphasis be put on getting browse plants established. They will do better and provide more ground cover than most grasses on this type of areas. ~~A~~ recommended seed mixture and procedure follows:

1. Try to get back at least 12" of suitable soil over areas to be reclaimed.
2. Disc and pit to loosen and roughen the soil surface so there is small pits to catch all the precipitation.
3. Broadcast seed:

	<u>LBS per Acre</u>
Fourwing Saltbrush	4
Rabbitbrush	4
Shadsale	4
Crested wheatgrass	5
Indian Ricegrass	3
TOTAL	<u>20</u> lbs/acre

4. Lightly harrow or rake seed into soil 1/4" - 1/2"
5. Broadcast Fertilizer - 200 lbs/acre Diammonium phosphate 18-46-0

re  
cc: Western Clay Company  
0709Q

## **Appendix 2**

# **Map-Ownership of Land Surface**

## **Appendix 3**

# **Topographic Maps**

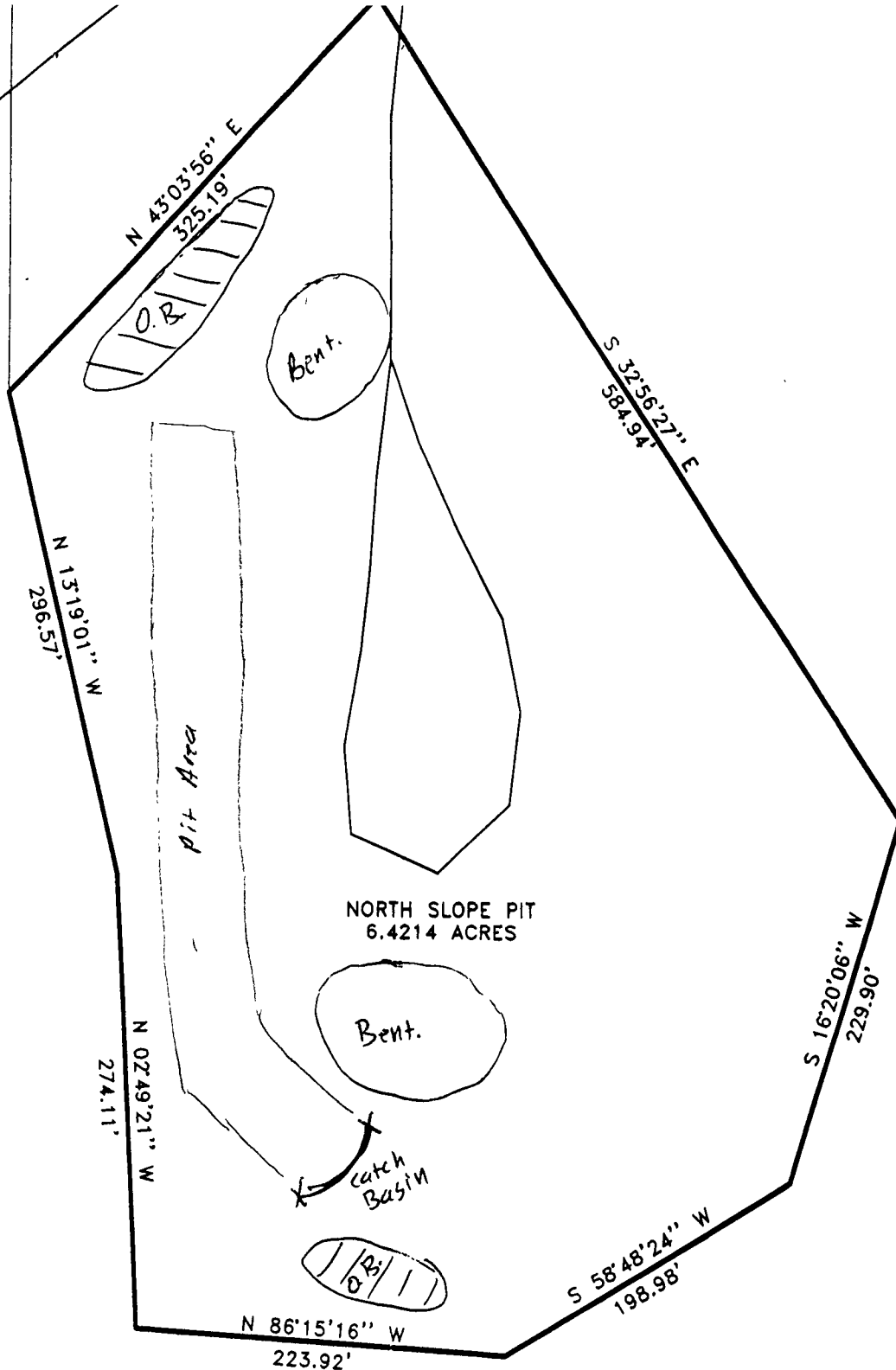
## **Appendix 5**

# **Surface Facilities Maps**



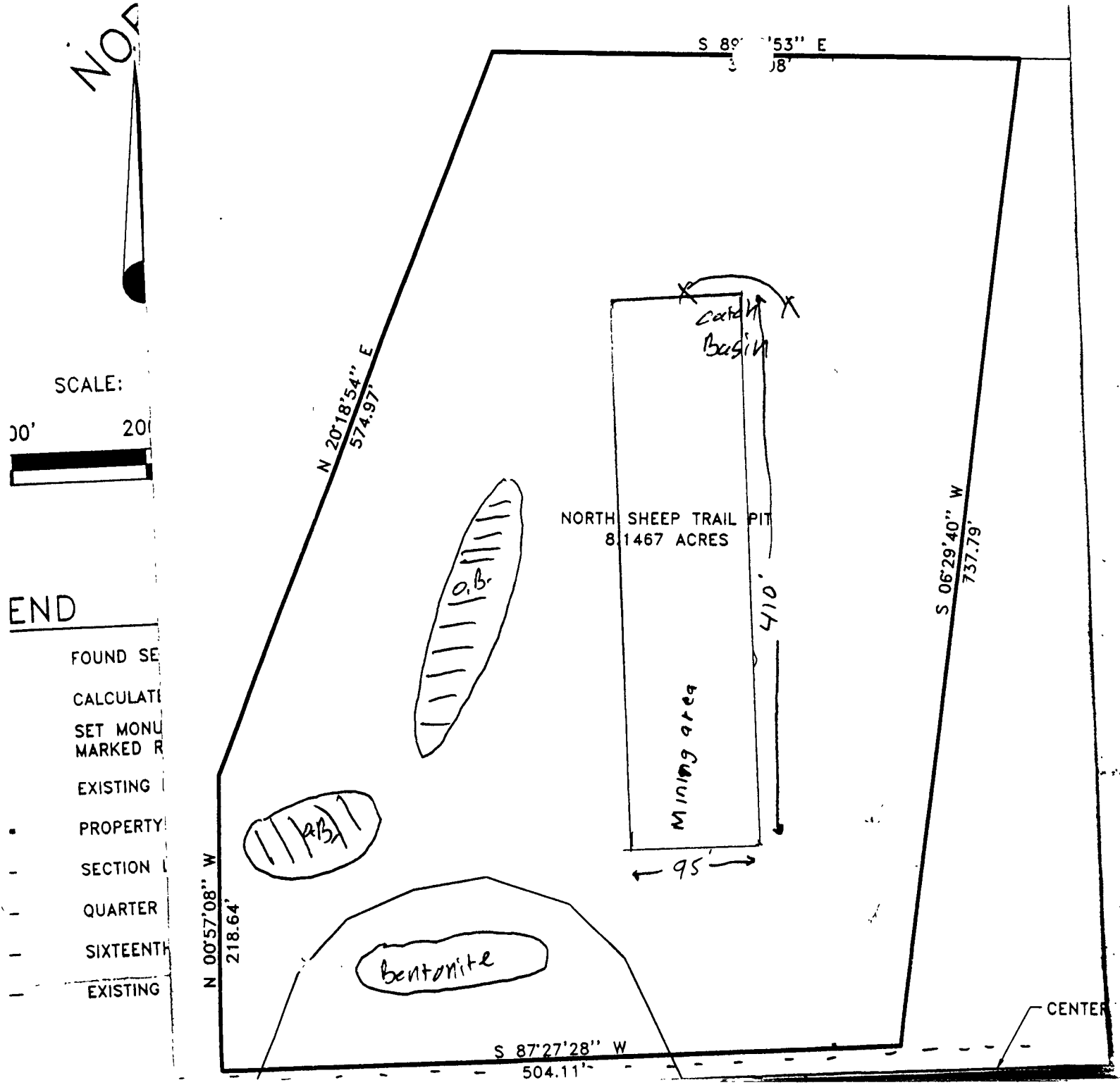
## **APPENDIX 6**

# **Reclamation Treatments**



### **Reclamation Treatments-North Slope Pit Area**

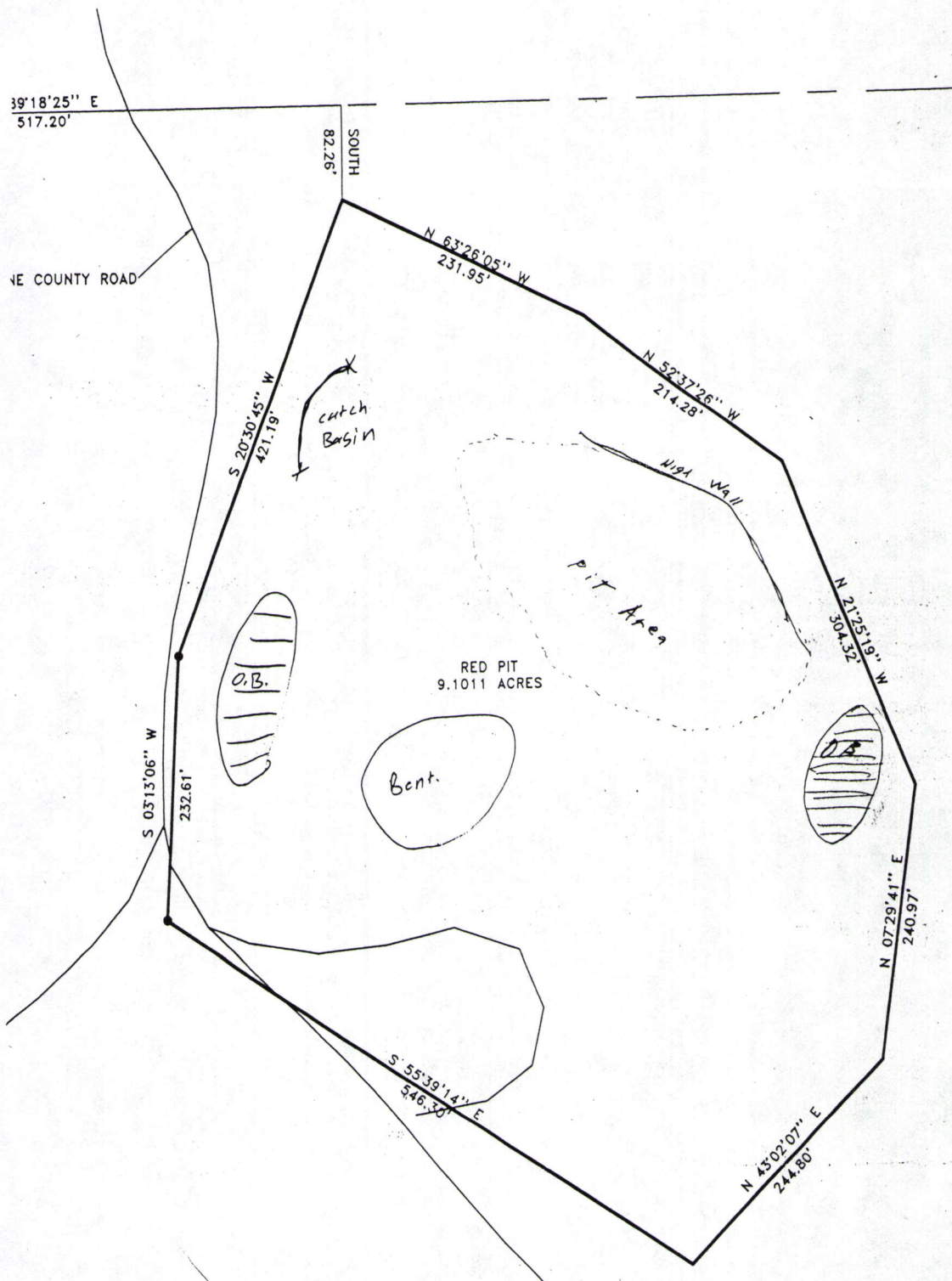
- Bentonite stockpiles will be removed and/or used as fill for the pit area.
- Pit area slopes will be graded to a stable configuration.
- Overburden will be used to cover disturbed area and/or as fill for the pit area slopes.
- Catch basin will be breached to allow drainage.
- Roadway will be disced and roughened to match total reclaimed area.
- All pit areas will be treated as follows:
  1. Soil surface will be disced and pitted to roughen soil surface so there are small pits to catch precipitation.
  2. Seed will be broadcast according to D.O.G.M. recommendations. Recommendations from the original L.O.I. were for; Fourwing Saltbrush at 4 lbs per acre, Rabbitbrush at 4 lbs per acre, Shadsale at 4 lbs per acre, Crested Wheatgrass at 5 lbs per acre, and Indian Ricegrass at 3 lbs per acre for a total of 20 lbs per acre.
  3. Seed will be lightly harrowed or raked into the soil 1/4" to 1/2".
  4. Appropriate fertilizer will be applied based on D.O.G.M. recommendations. The recommendation in the original N.O.I. was for Diammonium Phosphate at 200 lbs per acre. It has also been suggested that manure may need to be used to allow for prolonged plant nutrient benefit.
- All equipment and foreign matter will be removed from the site.



### Reclamation Treatments-North Sheep Trail Pit Area

- Bentonite stockpiles will be removed and/or used as fill for the pit area.
- Pit area slopes will be graded to a stable configuration.
- Overburden will be used to cover disturbed area and/or as fill for the pit area slopes.
- Catch basin will be breached to allow drainage.
- Roadway will be disced and roughened to match total reclaimed area.
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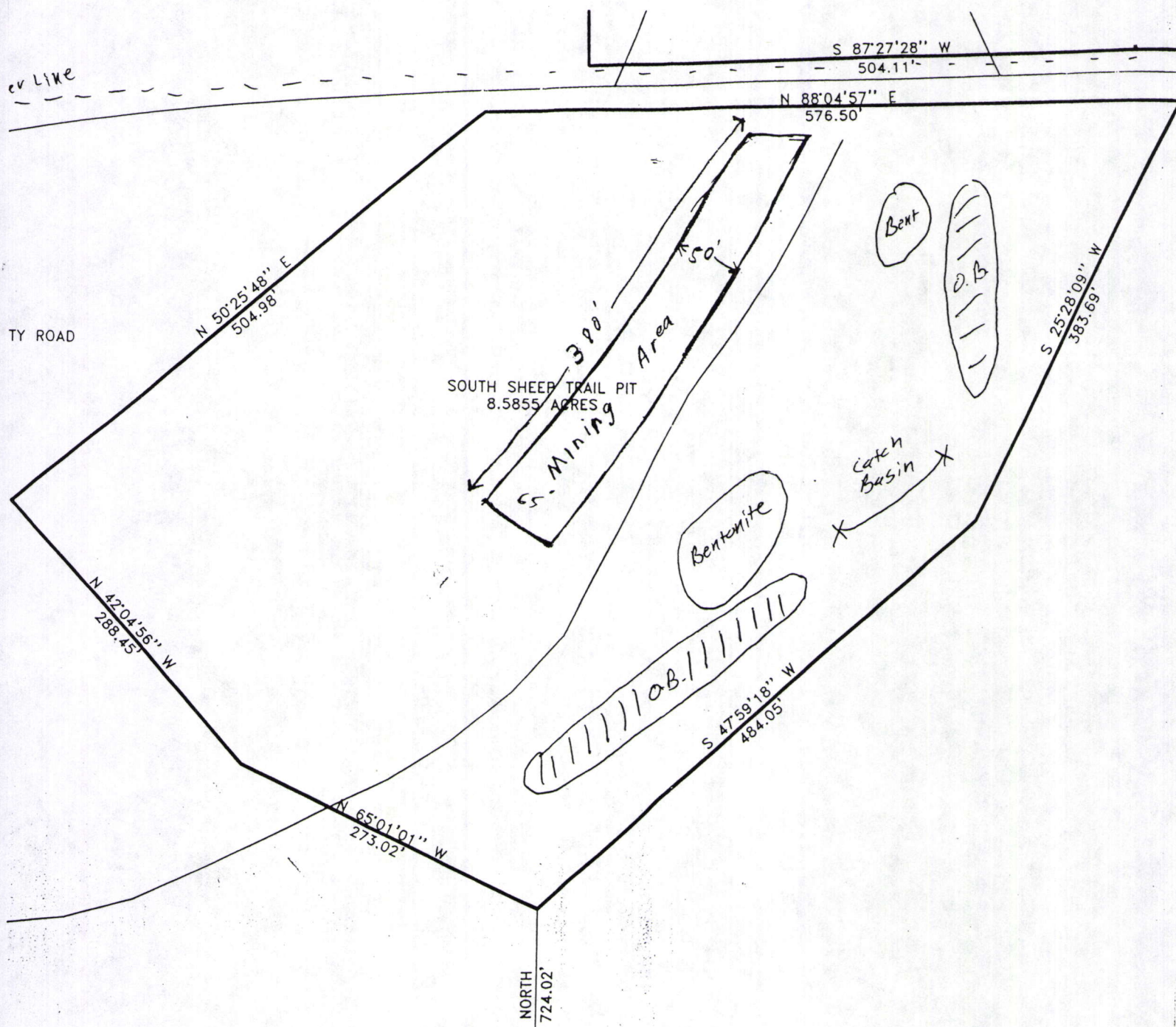
# RED PITS



## Reclamation Treatments-Red Pit Area

- Bentonite stockpiles will be removed and/or used as fill for the pit area.
- Pit area slopes will be graded to a stable configuration.
- Overburden will be used to cover disturbed area and/or as fill for the pita are slopes.
- Catch basin will be breached to allow drainage.
- Roadway will be disced and roughened to match total reclaimed area.
- All pit areas will be treated as follows:
  1. Soil surface will be disced and pitted to roughen soil surface so there are small pits to catch percipitation.
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  3. Seed will be lightly harrowed or raked into the soil  $1/4''$  to  $1/2''$ .
  4. Appropriate fertilizer will be applied based on D.O.G.M. recommendations. The recomendation in the original N.O.I. was for Diammonium Phospate at 200 lbs per acre. It has also been suggested that manure may need to be used to allow for prolonged plant nutrient benefit.
- All equipment and foreign matter will be removed from the site.



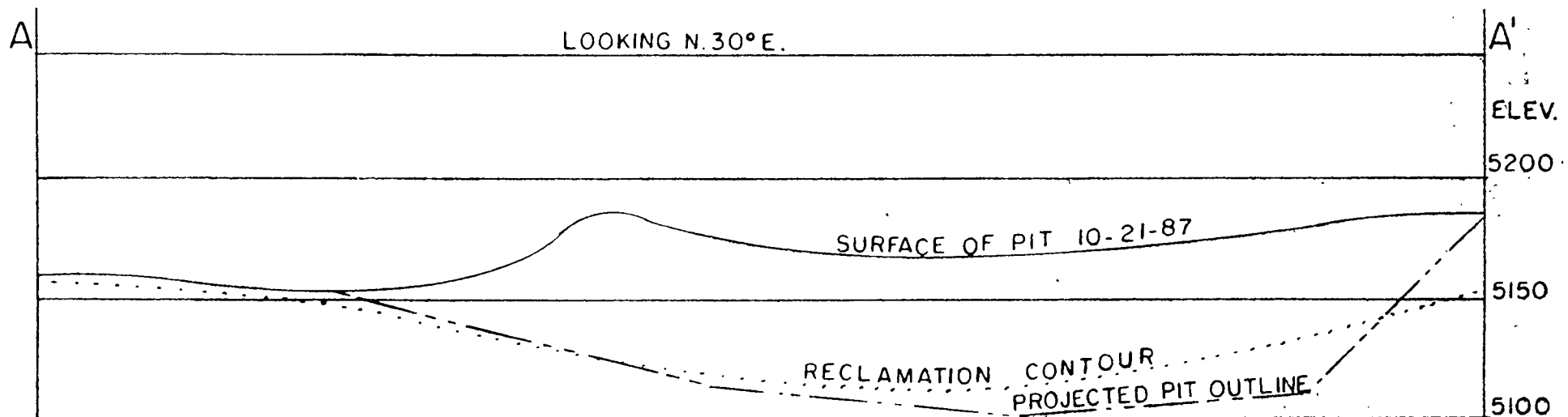


### **Reclamation Treatments-South Sheep Trail Pit Area**

- Bentonite stockpiles will be removed and/or used as fill for the pit area.
- Pit area slopes will be graded to a stable configuration.
- Overburden will be used to cover disturbed area and/or as fill for the pit area slopes.
- Catch basin will be breached to allow drainage.
- Roadway will be disced and roughened to match total reclaimed area.
- All pit areas will be treated as follows:
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  4. Appropriate fertilizer will be applied based on D.O.G.M. recommendations. The recommendation in the original N.O.I. was for Diammonium Phosphate at 200 lbs per acre. It has also been suggested that manure may need to be used to allow for prolonged plant nutrient benefit.
- All equipment and foreign matter will be removed from the site.



# Red Pit



RECEIVED  
FEB 16 1988

DIVISION OF  
OIL, GAS & MINING

10/2/01

## RECLAMATION VOLUMES REDMOND, UTAH MINES

### NORTH SHEEP TRAIL MINE

CURRENT LEVEL RECLAMATION VOLUME = 10,030 YARDS  
PROPOSED LEVEL RECLAMATION VOLUME = 23,830 YARDS

### SHEEP TRAIL SOUTH MINE

CURRENT LEVEL RECLAMATION VOLUME = 10,944 YARDS  
PROPOSED LEVEL RECLAMATION VOLUME = 29321 YARDS

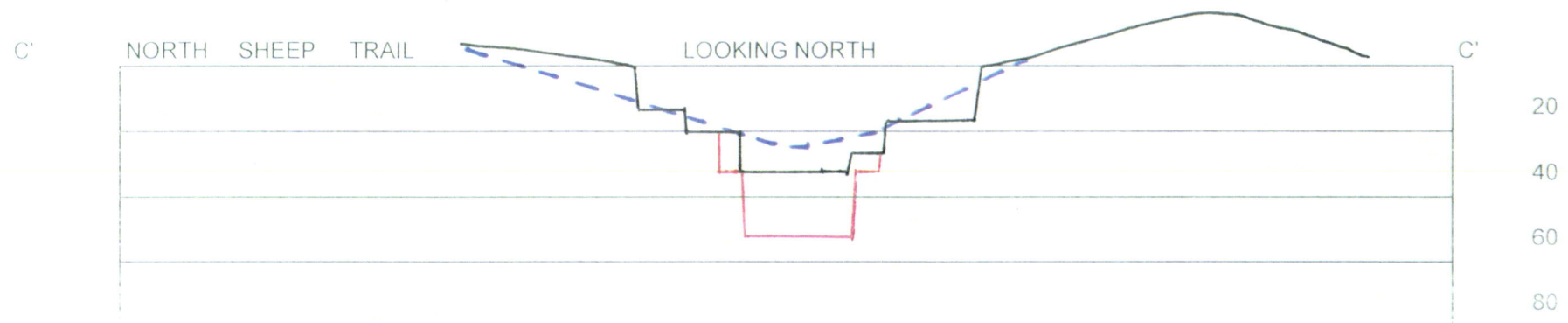
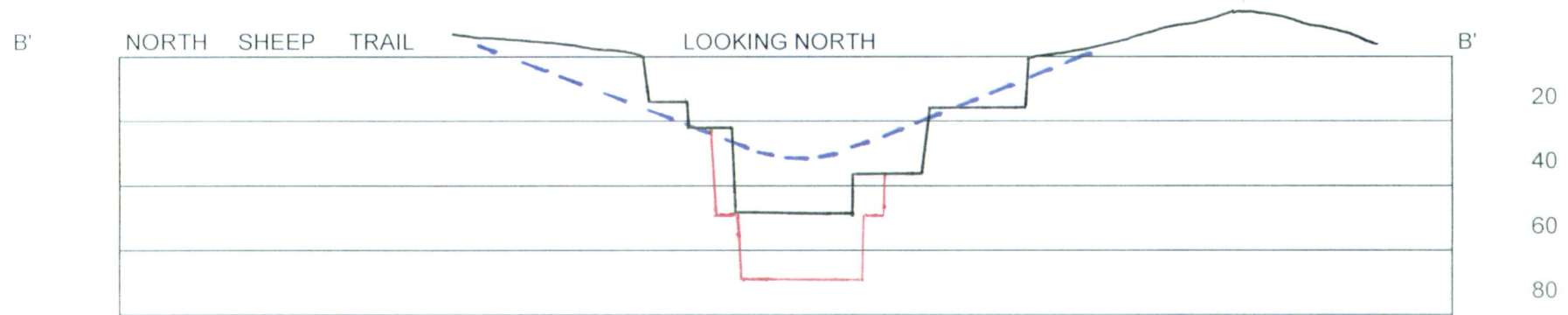
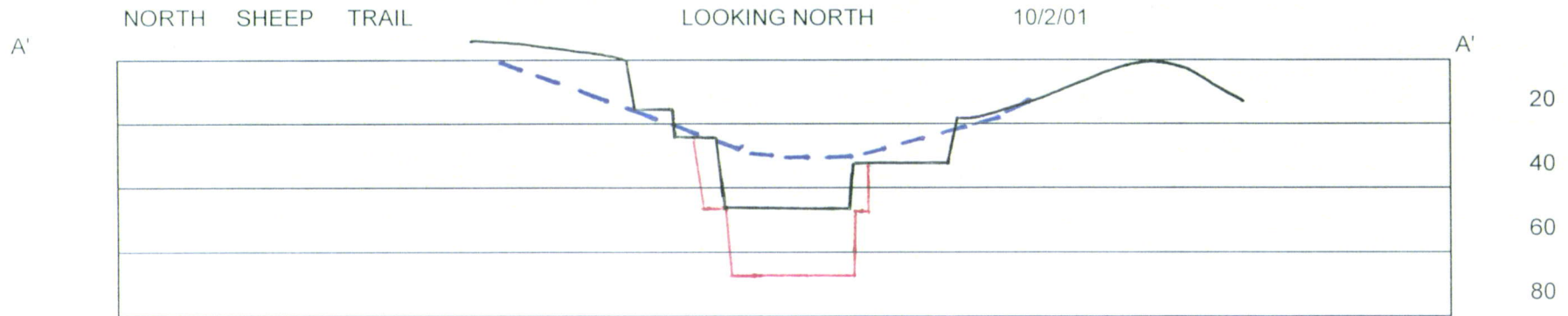
### NORTH SLOPE MINE

CURRENT LEVEL RECLAMATION VOLUME = 20,966 YARDS  
PROPOSED LEVEL RECLAMATION VOLUME = 49,795 YARDS

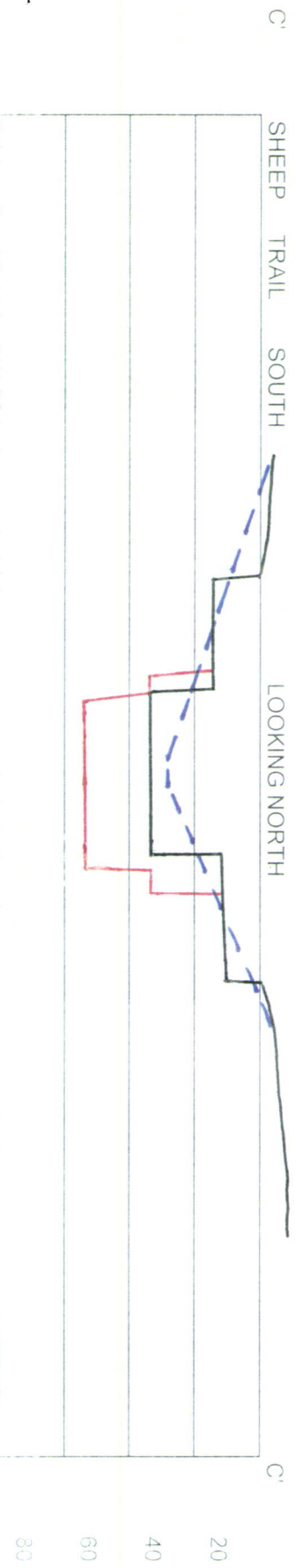
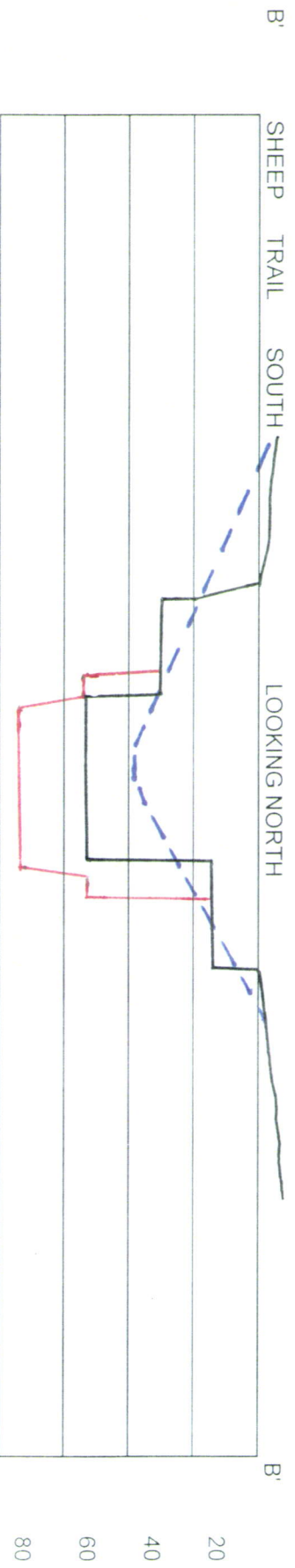
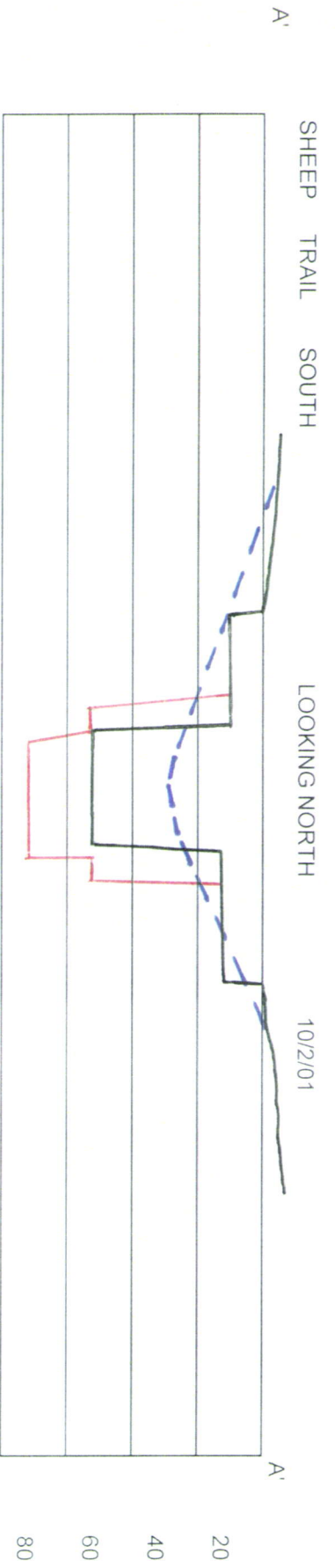
### RED PIT MINE

CURRENT LEVEL RECLAMATION VOLUME = 24,930 YARDS  
PROPOSED LEVEL RECLAMATION VOLUME = 41,414 YARDS

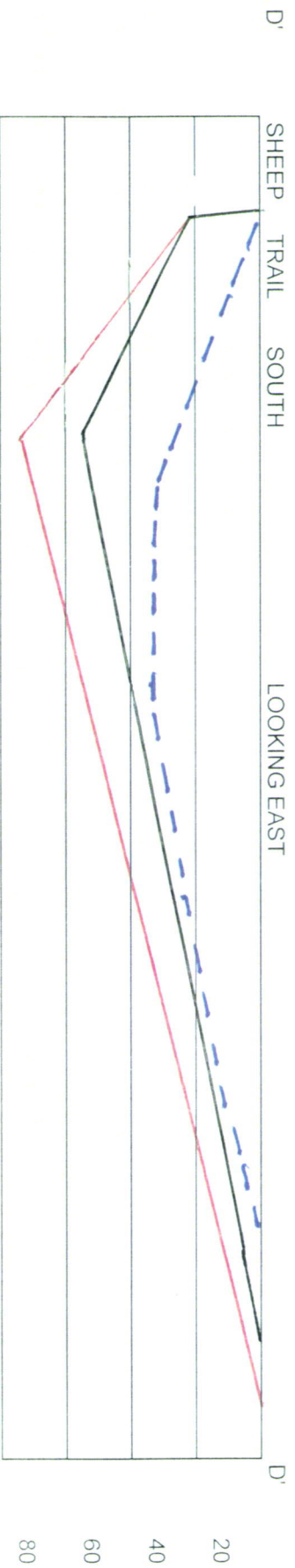
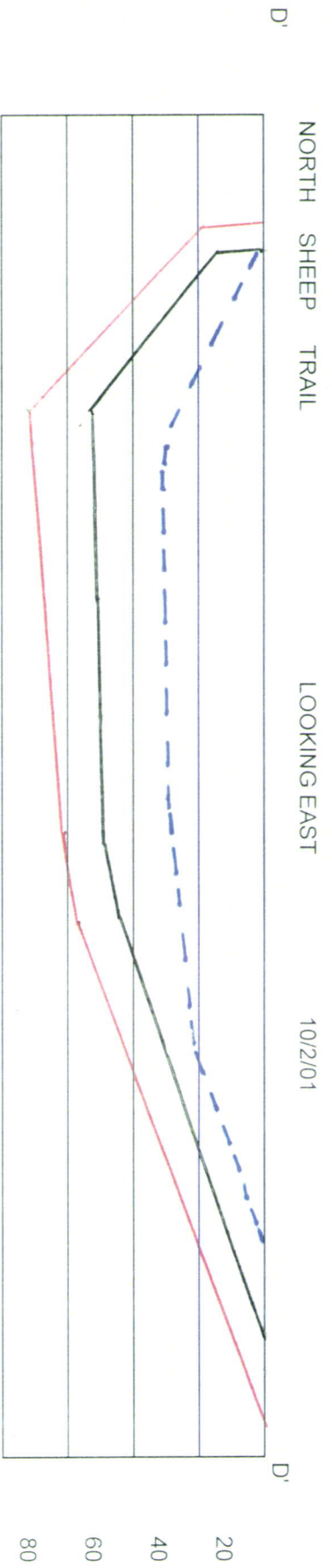
CURRENT MINE PROFILE ———  
 PROPOSED MINE PROFILE ———  
 PROPOSED RECLAMATION - - -



CURRENT MINE PROFILE  
 PROPOSED MINE PROFILE  
 PROPOSED RECLAMATION

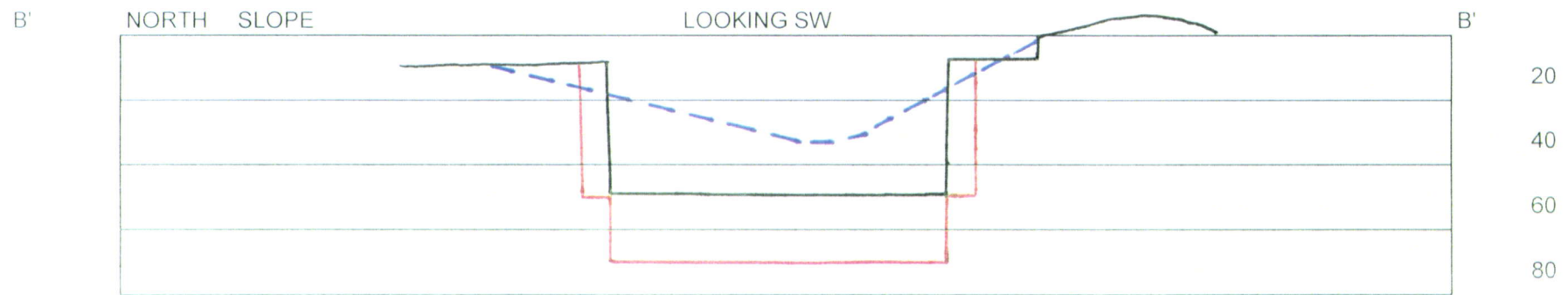


CURRENT MINE PROFILE  
 PROPOSED MINE PROFILE  
 PROPOSED RECLAMATION

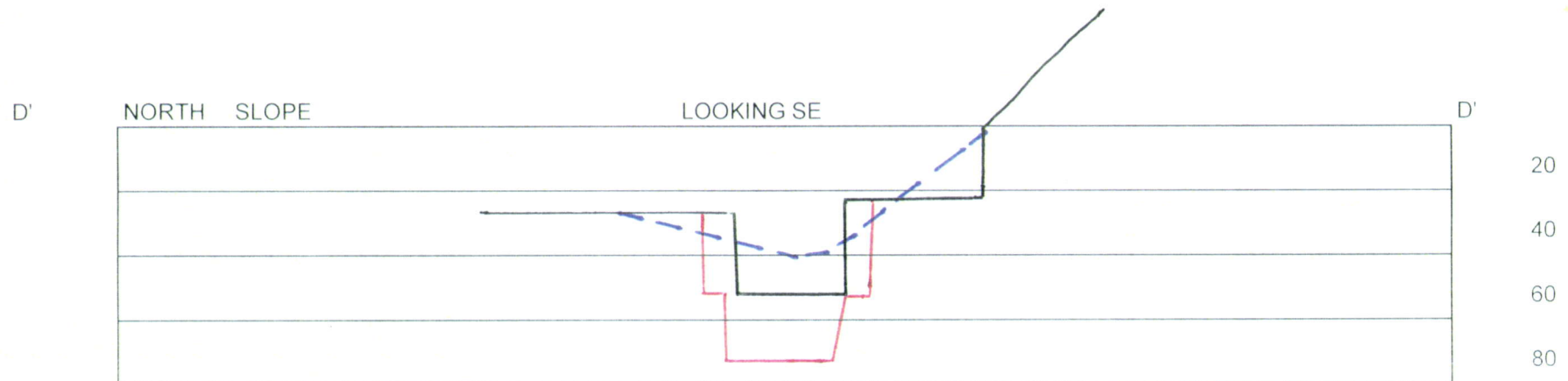
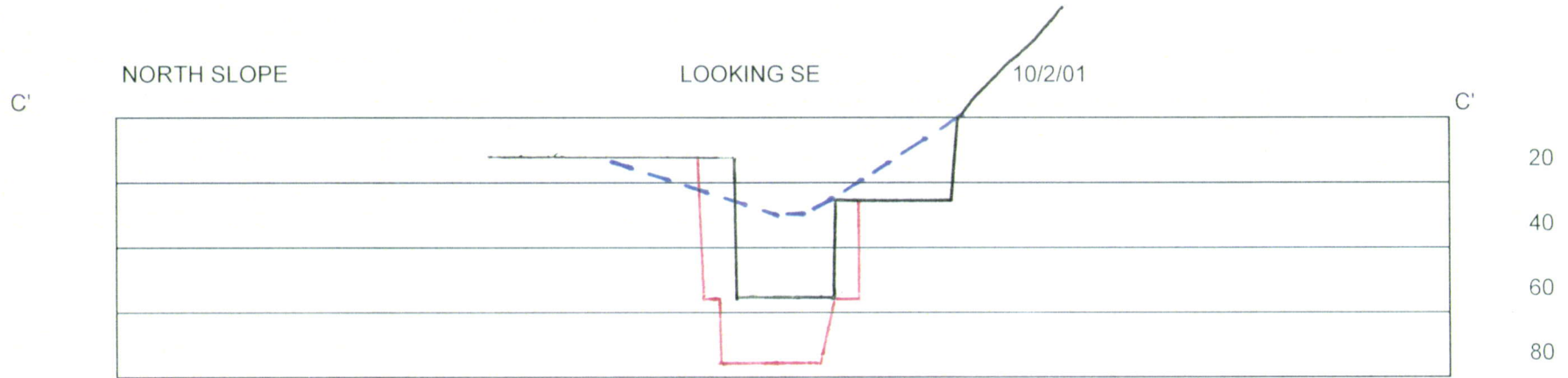




CURRENT MINE PROFILE ———  
PROPOSED MINE PROFILE ———  
PROPOSED RECLAMATION - - -



CURRENT MINE PROFILE ———  
PROPOSED MINE PROFILE ———  
PROPOSED RECLAMATION - - -



CURRENT MINE PROFILE  
 PROPOSED MINE PROFILE  
 PROPOSED RECLAMATION

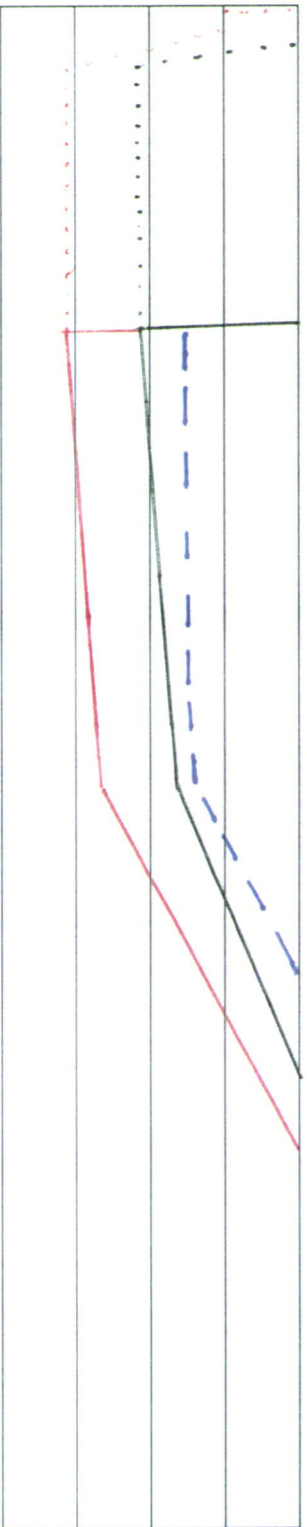
E

NORTH SLOPE

LOOKING NW

10/2/01

E

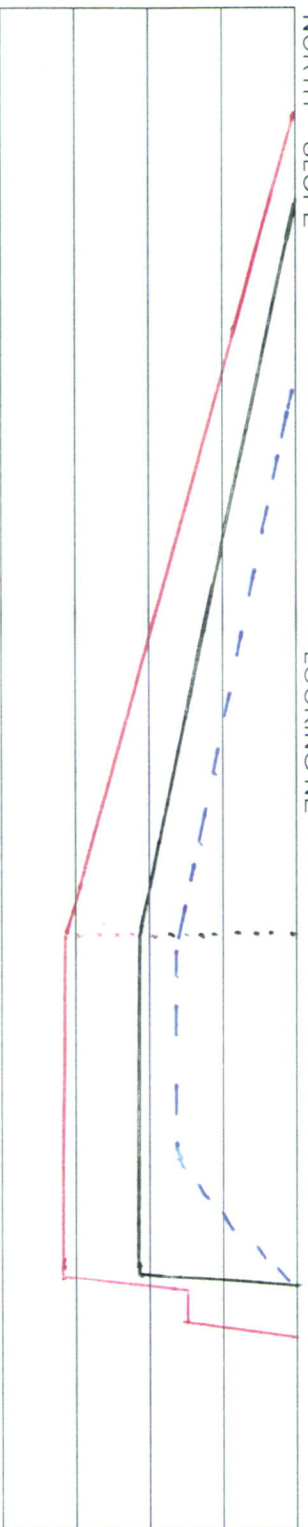


F

NORTH SLOPE

LOOKING NE

F



12/27/01

*m/041/012*

RECLAMATION VOLUMES  
REDMOND, UTAH MINES

RED PIT MINE

CURRENT LEVEL RECLAMATION VOLUME = 24,930 YARDS

PROPOSED LEVEL RECLAMATION VOLUME = 41,414 YARDS

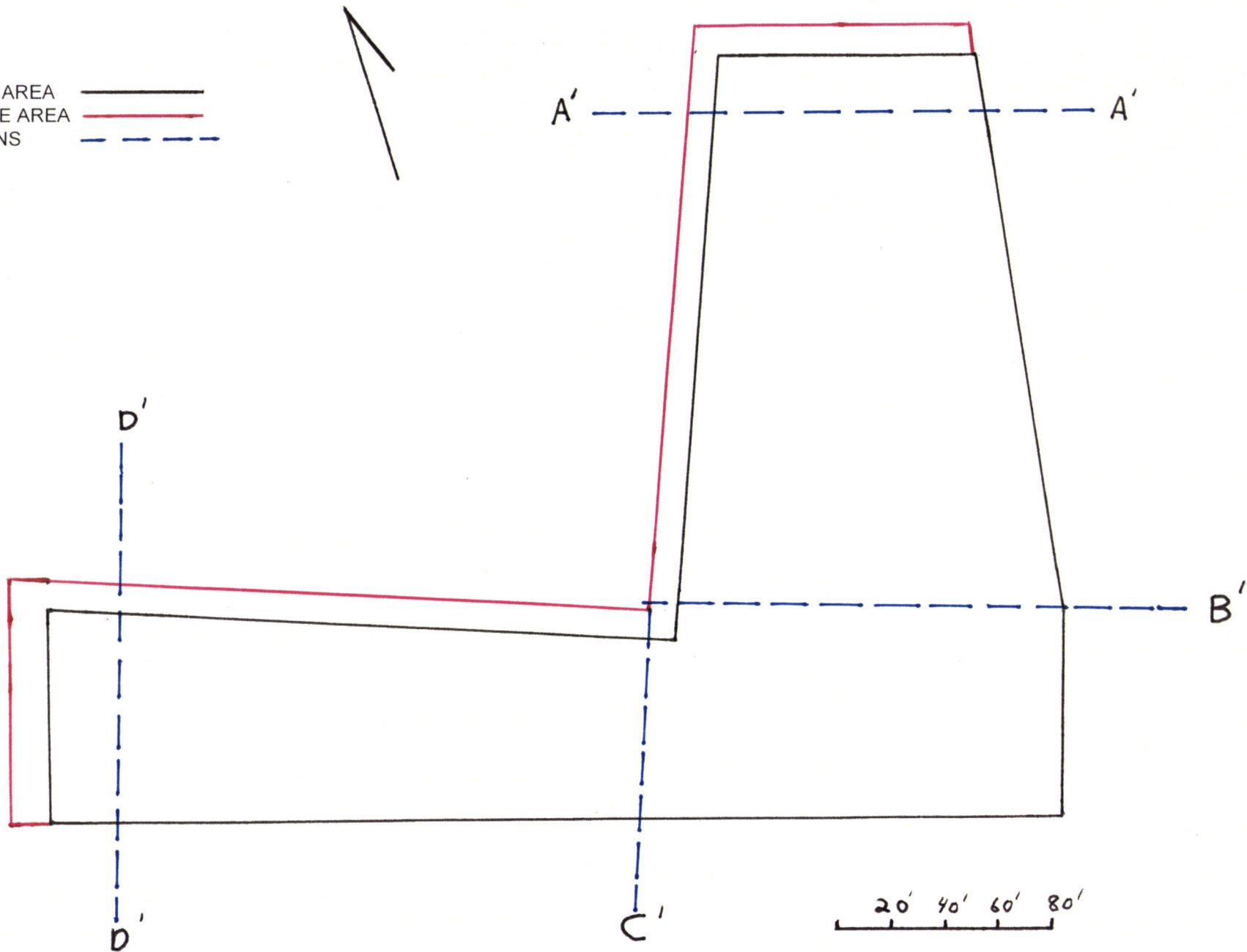
**RECEIVED**

JAN 02 2002

DIVISION OF  
OIL, GAS AND MINING

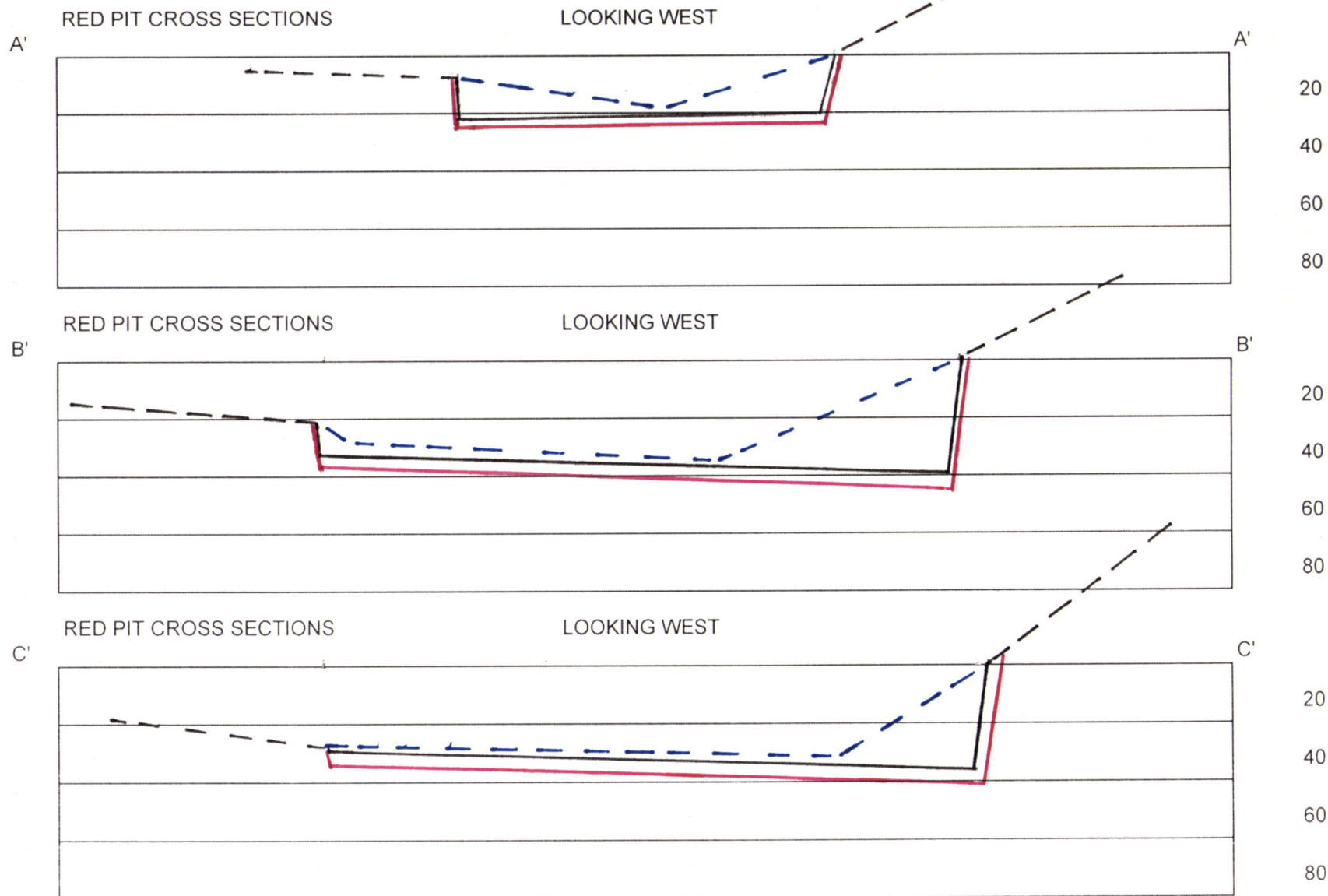
NORTH SLOPE  
12/21/01

CURRENT MINE AREA ———  
PROPOSED MINE AREA ———  
CROSS SECTIONS - - - - -



12/26/01

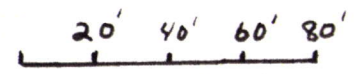
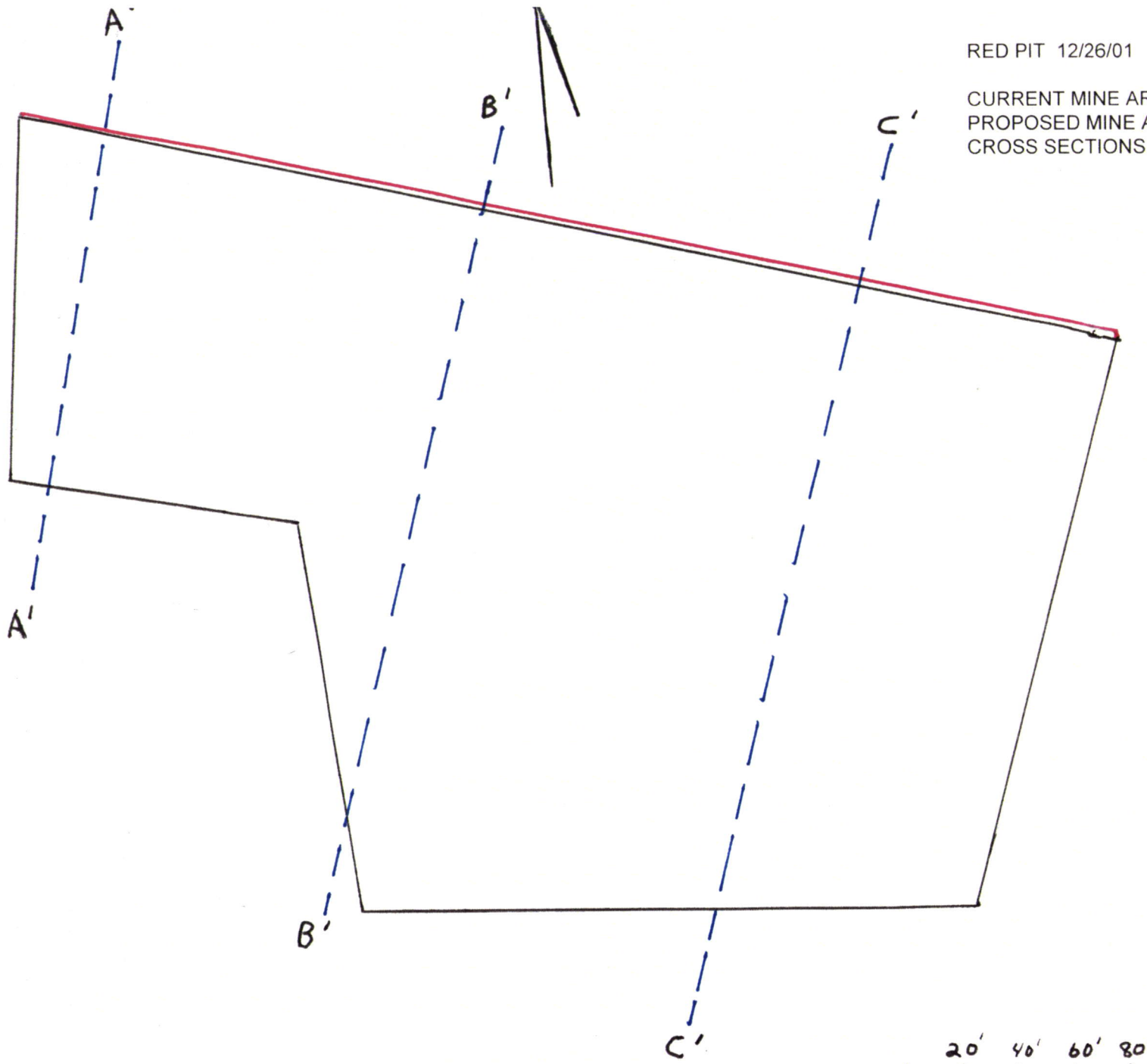
CURRENT MINE PROFILE  
PROPOSED MINE PROFILE  
PROPOSE RECLAMATION  
NATURAL CONTOUR





RED PIT 12/26/01

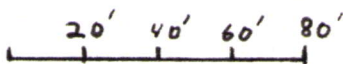
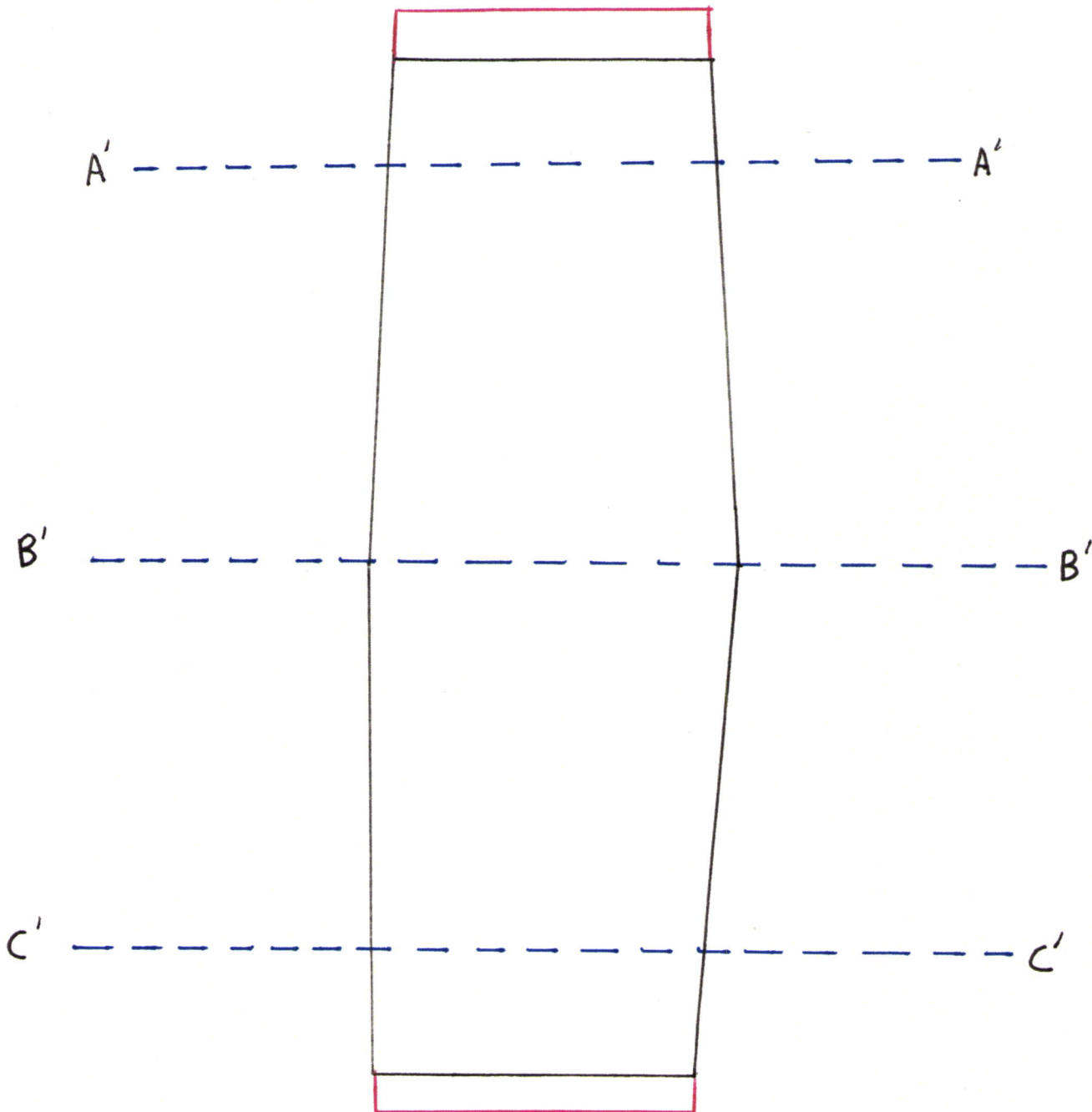
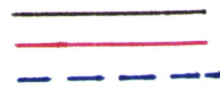
CURRENT MINE AREA —————  
PROPOSED MINE AREA —————  
CROSS SECTIONS - - - - -



SHEEP TRAIL NORTH  
12/21/01



CURRENT MINE AREA  
PROPOSED MINE AREA  
CROSS SECTIONS

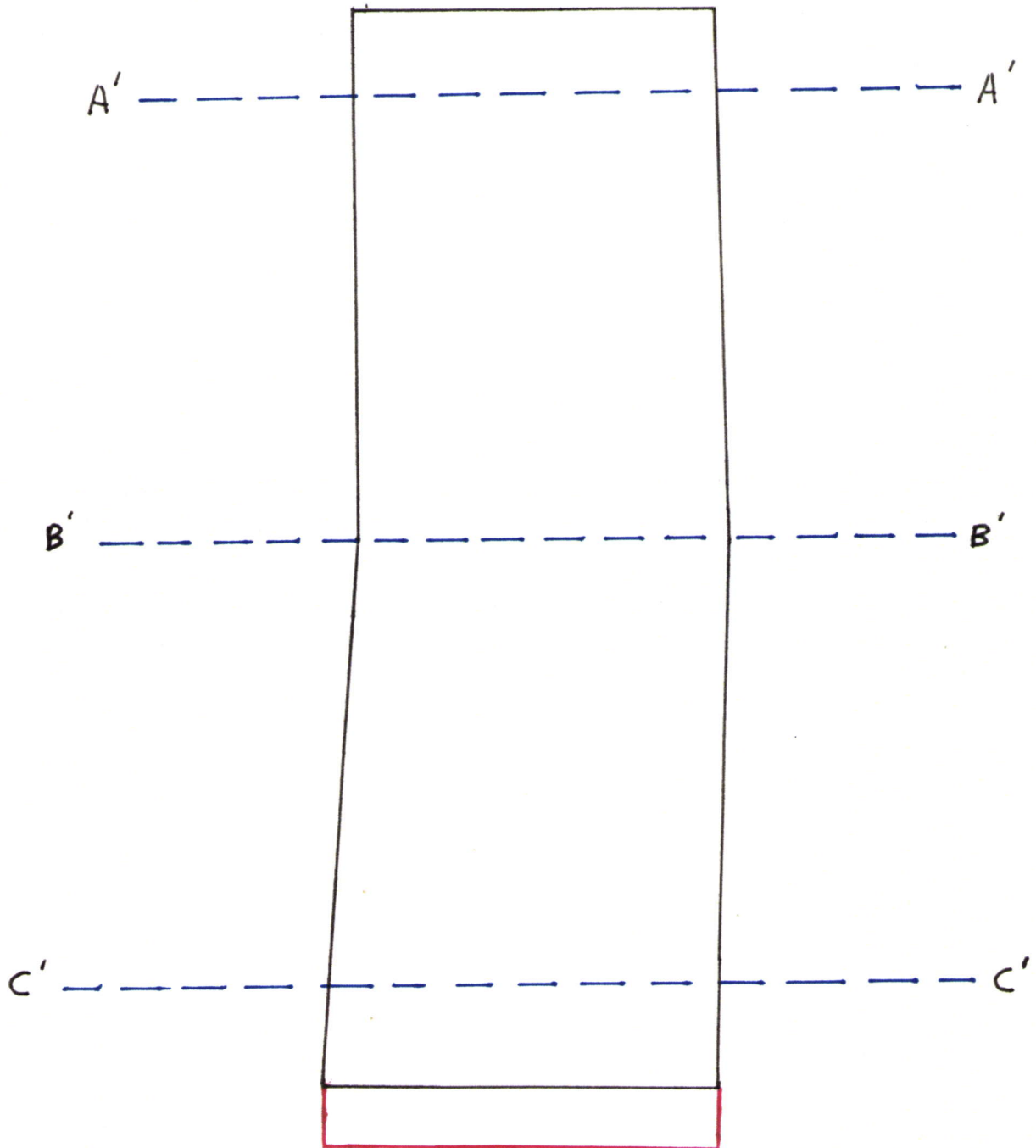




SHEEP TRAIL SOUTH  
12/21/01



CURRENT MINE AREA   
PROPOSED MINE AREA   
CROSS SECTIONS 



20' 40' 60' 80'